# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 02/12/2019 09:49 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/02/2019 10:47 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 72756 | Expiration Date: | 10/31/2019 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124756 | -1 | 2.41 | 124801 | 2.37 |
| Blue | F | SSC | 125000 | 124407 | -1 | 2.17 | 125304 | 2.21 |
| Blue | E | FITC | 16694 | 16424 | -2 | 3.60 | 382 | 22.32 |
| Blue | D | PE | 32792 | 32288 | -2 | 2.76 | 713 | 16.88 |
| Blue | B | PerCP-Cy5-5 | 44451 | 44219 | -1 | 5.04 | 1210 | 24.41 |
| Blue | A | PE-Cy7 | 33645 | 33419 | -1 | 8.28 | 600 | 52.70 |
| Red | C | APC | 47008 | 46446 | -2 | 3.07 | 1805 | 13.64 |
| Red | A | APC-Cy7 | 32298 | 31510 | -3 | 3.91 | 789 | 14.90 |
| Violet | B | V450 | 8961 | 8598 | -5 | 4.48 | 475 | 15.10 |
| Violet | A | V500 | 32726 | 31490 | -4 | 4.03 | 757 | 11.21 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20139 | 7.29 | 616 | 3 | N/A | N/A | Pass |
| Blue | F | SSC | 55798 | 1.97 | 582 | 14 | N/A | N/A | Pass |
| Blue | E | FITC | 63 | 72.41 | 570 | 7 | 0.0146 | 113 | Pass |
| Blue | D | PE | 141 | 60.23 | 575 | 9 | 0.1241 | 310 | Pass |
| Blue | B | PerCP-Cy5-5 | 222 | 58.91 | 684 | 13 | 0.0065 | 41 | Pass |
| Blue | A | PE-Cy7 | 113 | 136.71 | 746 | 20 | 0.0076 | 33 | Pass |
| Red | C | APC | 409 | 29.65 | 613 | 0 | 0.0184 | 156 | Pass |
| Red | A | APC-Cy7 | 197 | 32.64 | 587 | 2 | 0.0042 | 914 | Pass |
| Violet | B | V450 | 70 | 71.81 | 482 | -4 | 0.0378 | 2040 | Pass |
| Violet | A | V500 | 106 | 41.27 | 492 | -4 | 0.0207 | 1384 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.98 | -31.82 | 1.10 |
| Blue | 20.35 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.48 |
| Red | 16.50 | 13.60 - 20.40 | N/A | N/A | 29.21 | 29.40 | 1.24 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 9745

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments